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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/826,919	04/16/2004	Alexander Deiters	54-000250US	1323	
22798 7590 11/24/2010 QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C. P O BOX 458			EXAM	EXAMINER	
			GEBREYESUS, KAGNEW H		
ALAMEDA, CA 94501			ART UNIT	PAPER NUMBER	
			1656		
			MAIL DATE	DELIVERY MODE	
			11/24/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Supplemental Notice of Allowability

Application No.	Applicant(s)	
10/826,919	DEITERS ET AL.	
Examiner	Art Unit	
KAGNEW H. GEBREYESUS	1656	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- This communication is responsive to 8/2/2010.
- The allowed claim(s) is/are 52-54,56-59,63 and 65.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  $\square$  All b) ☐ Some\* c) ☐ None of the:
    - 1. T Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date 8/6/2009 4. ☐ Examiner's Comment Regarding Requirement for Deposit
- of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. 

  Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

Application/Control Number: 10/826,919

Art Unit: 1656

### DETAILED ACTION

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 02, 2010 has been entered. Claims 52-54, 56 and 58 are amended. Claim 65 is new. Claims 52-54, 56-59, 63-65 are present for examination.

All objections and rejections will be withdrawn upon acceptance of the following amendments.

## Drawings

The drawings were received on 4/16/2004. These drawings are acknowledged.

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided Application/Control Number: 10/826,919 Page 3

Art Unit: 1656

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Attorney Christina Onufryk on September 7, 2010.

Amend claim 52 line 8-10 as follows:

"an orthogonal aminoacyl tRNA synthetase (O-RS) that preferentially aminoacylates the O-tRNA with the unnatural amino acid, wherein the O-RS comprises [[an]] the amino acid sequence that-corresponds to gf any one of SEQ ID NOs: 48 - 53."

In claim 53 replace part (i) reciting:

 (i) an amino acid sequence set forth in any one of SEQ ID NOs: 48 - 53 and or a conservative variant[[s]] thereof, wherein the conservative variant[[s are]] is at least 98% identical to any one of SEQ ID NOs: 48 - 53, or

#### with

(i) an amino acid sequence set forth in any one of SEQ ID NOs: 48 - 53 and or a conservative variant[[s]] thereof, wherein the conservative variant[[s are]] is at least 95% identical to any one of SEQ ID NOs: 48 - 53, and comprises two or more amino acids selected from the group consisting of glycine, serine, or alanine at a position corresponding to Tyr37; aspartate at a position corresponding to Asn126; asparagine at a position corresponding to Asn126; asparagine at a position corresponding to Asn182; alanine, or valine, at a position corresponding to Phe183; and, methionine, valine, cysteine, or threonine, at a position corresponding to Leu186; or

Replace claim 63 with:

The method according to claim 53, wherein the eukaryotic cell is a yeast cell and wherein the O-tRNA and the O-RS are derived from *E. coli*.

Conclusion: Claims 52-54, 56-59, 63, 65 are allowed.

Application/Control Number: 10/826,919

Art Unit: 1656

The following is an examiner's statement of reasons for allowance: The prior art does not teach a method of using the ORS and O-tRNA disclosed in the instant claims for the production of a protein comprising the specific unnatural amino acids in a eukaryotic cell.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAGNEW H. GEBREYESUS whose telephone number is (571)272-2937. The examiner can normally be reached on 8:30am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MANJUNATH RAO can be reached on 571-272-0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/826,919 Page 5

Art Unit: 1656

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kagnew H Gebreyesus/ Acting Examiner of Art Unit 1656 August 31, 2010

/Manjunath N. Rao / Supervisory Patent Examiner, Art Unit 1656